

Knitted Outerwear Times

MAY 5 '60

the official publication of the
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TECHNOLOGY

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MONDAY, APRIL 25, 1960

No. 17

See Consumption As In Excess Of Top Cotton Crop

WASHINGTON, D. C.—The world cotton crop for 1959-60, now estimated at 47.5 million bales, 500 pounds gross weight, will set a record for the second successive year, according to the Commerce Department. This crop exceeds the 1958-59 record by 3.2 million bales or seven percent, and is 8.7 million bales above the average for the five years 1950-54.

Although production is again at a new high, cotton consumption continues to rise and, on a world basis, consumption may exceed production this season by a small margin and result in a reduction in stocks for the fourth consecutive season.

Nearly all of the 1959-60 crop in Northern Hemisphere countries has been harvested and moved into domestic and export markets, and harvesting in most southern Hemisphere countries is now well underway. As the season progressed, there have been upward adjustments from the October 1959 production estimates for the U.S.S.R., Mainland China, Brazil, and several other countries. Meanwhile, generally adverse conditions resulted in lower estimates for India, Argentina, and Nigeria.

Foreign Production

Foreign production reached a new high of 33.0 million bales in 1959-60. However, this was only 0.2 million bales above 1958-59, and contrasts with the overall sharp increase in foreign production since World War II.

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HARRY SILVER

Silver Chairman Of Industry UJA Drive

Harry Silver, of Lofties Knitting Mills, has accepted the 1960 chairmanship of the knitwear and yarn industries' annual drive on behalf of the United Jewish Appeal, it was announced by Monroe Goldwater, president of the New York UJA.

Many prominent men in the field will be working with Mr. Silver to plan a successful testimonial dinner this year and insure outstanding campaign results.

In accepting the appointment, Mr. Silver cited the UJA's past efforts in meeting the "problem of rescuing and transporting tens of thousands of helpless, homeless refugees from oppressed countries to Israel."

"This year," Mr. Silver added, "UJA is faced with the task of saving still more immigrants from Eastern Europe and other areas, and with the even more critical challenge of providing decent housing for 60,000 of Israel's earlier newcomers."

Annual NKOA Convention To Cover Developments In Fibers And Fabrics

THE latest technical developments in fibers and yarns for the knitwear industry, as well as in knitted fabrics, will be discussed at the 42nd annual convention sponsored by the National Knitted Outerwear Association on May 5 at the Waldorf-Astoria Hotel, New York City.

In making known the program details of the day-long conclave, Sidney S. Korzenik, NKOA executive director and counsel, pointed out that the luncheon session will be devoted to an important discussion of various aspects of the Robinson-Patman Act and how they relate to the knitwear market.

Another highlight of the convention will be a morning session covering research studies sponsored by the Association in the areas of quality and production control. This session will get underway at 9:30 A.M. in the Basildon Room and will be followed by an intensive review of recent advances in synthetic fibers and yarns and their end-use potential in sweaters, swimwear and other knitted apparel.

Knit Fabric Forum

The luncheon session will open at 12:30 P.M. in the Jade Room. The knitted fabric forum which constitutes the afternoon session will start at 3 P.M. in the Basildon Room. Such new developments on the fabric scene as napping and shearing, knitting of pile fabric and laminating knitgoods will be considered.

James F. Nields, NKOA president, will open the morning session. Bertrand Frank, Bertrand Frank Associates, management consultants, will discuss quality control procedures in knitted outerwear. "A System for Production Control" will be presented in a talk by T. A. Podbereski, knitwear

management consultant.

Speakers at the fibers and yarns session will include: George Vescio, manager of apparel merchandising for the fibers division of American Cyanamid Company, who will present a paper on "New Possibilities in Creslan"; Kenneth J. Rupprecht, development manager of the Lastex division of United States Rubber Company, "Vyrene—the New Elastomer and Its Uses in the Industry"; Frank Cooper, field service group leader for the Ban-Lon Division of Joseph Bancroft & Sons Co., "Innovations in Ban-Lon for Knitted Outerwear"; Jerome B. Edelman, sweater and knitwear specialist for the Chemstrand Corp., "The Range of New Potentialities in Knitting Acrlan"; and Victor J. Lombardi, product development, Scott & Williams, Inc., "Paper Yarns and Their Use in Knitting."

A six-man team from E. I. Du Pont de Nemours & Co. will present papers on new developments in knitting with such Du Pont Fibers as Orlon, Antron and Lycra. Kenneth Bass, women's outerwear, marketing services, will moderate the panel and give an introductory talk.

Other speakers will be: Collins Thompson, products division, "New Fiber Developments"; J. C. Hoscheit, Orlon technical service, "Product Improvement"; Lee Bidgood, dyeing and finishing technical

(Continued on Page 31)

2nd Annual NKOA Banquet May 5, 1960, at the Waldorf-Astoria Hotel

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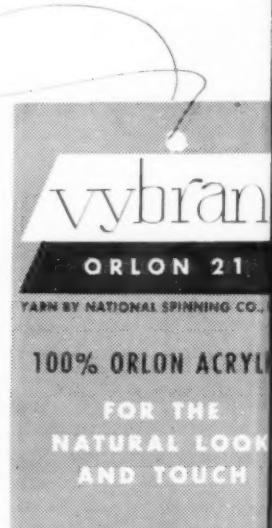
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Knitting Quality Control

Details Of HATRA Positive Feed System

BUXTON, Derbyshire England —The first authoritative information about the H. A. T. R. A. positive feed system of knitting control was given to members of the British knitting industry by a technician of the Hosiery and Allied Trades Research Association Textile Institute's Knitting Group.

About 100 delegates also heard papers on: yarn packaging; production systems for the knitting trade; and methods of measuring regain of worsted yarns and fabrics.

P. Stacey, of Hosiery and Allied Trades Research Association, said that variations in the dimensions and weights of knitted fabrics and garments constitute one of the most important technical problems facing the knitting industry at the present time.

"Loss of production invariably accompanies such variations," he said, "and the problem is not diminished when we remember that it is not confined to one small section of the industry but is encountered in all classes of knitted goods, whether circular knit or flat knit, and on either latch needles or bearded needles. Neither is it a problem confined to any one fiber, being found in articles made from any one of the natural or the man-made fibers."

Manual Control Progress

"The problem," said Mr. Stacey, "is in fact a universal one. Nevertheless considerable advances have been made since the war, particularly in the field of manual knitting-control instruments and the procedures that go with them." These advances have all been designed to reduce the amount of variation in knitting, and now with the advent of the H. A. T. R. A. positive feed system, knitting variations are virtually eliminated and, possibly more important, the knitting quality is controlled automatically.

Mr. Stacey then considered, as an example, the dimensional variation problems as they affect a circular knitter. The variations are probably most apparent, he said, at the laying-up stage. The lay has uneven sides because the layers of fabric vary in width. When such a lay is cut, garment pieces of uneven size

may be present. When these pieces are stitched together extra manipulation on the sewing machine is necessary to align the edges and this manipulation causes cockled seams. "You will appreciate of course," Mr. Stacey said, "that such cockling becomes more apparent when a garment is wet out, that is, when it is washed for the first time by the user."

There are two operations which attempt to prevent differences in size of cut garment pieces. The first is the alignment of the fabric edges before cutting. This is time consuming and could be avoided if the fabric was constant in width. In any case it is useless for certain garments such as vests which may use the full fabric width.

Excess Trimming Wasteful

The second operation is the trimming of the excess fabric from the piles of cut portions of the lay. This is wasteful and the greater the dimensional variations are, the greater the waste of material.

Another aspect of the irregularities, Mr. Stacey continued, is that they cause variations in the weights of the individual garments. Although the average garment weight throughout the production run may agree with the specification weight and thereby cause no headaches in the cost office, a consumer may be unfortunate enough to buy two reputedly similar articles which in fact differ widely in weight, size and appearance and down goes the brand name in that customer's estimation.

Speaking about jersey fabrics, Mr. Stacey said that the same difficulties occur in laying-up, so dimensions and weights of garment parts are again likely to vary. In addition, differences in milling may be present, and matching of garment parts becomes extremely difficult.

Cold machines, temperature and humidity changes, variations

in yarn properties and count changes have been named as possible causes of these variations in dimensions, Mr. Stacey said. There are dozens of possible causes and it is obviously impossible to control all of them separately. For example, money spent on an elaborate and costly air conditioning plant can be offset by a small accumulation of fluff in a yarn guide, this adding tension to the yarn and so producing tighter knitting and a narrower fabric. As another example, there are those uncontrollable factors which are present with a dyed yarn when it is being knitted. It is well known that some shades knit differently from others, so machine adjustments have to be made, and these are frequently made on a trial and error basis.

Affect Loop Length

However, it is not necessary or even desirable to attempt to control all the possible causes of dimensional variations, because they are "all secondary causes which affect knitting by causing changes in one primary factor; this is the length of yarn in each knitted loop or in each course.

Time and time again it has been found that, for example, width variations within a roll of fabric are accompanied by changes in course length. The same set of conditions has, of course, been found in other cases of dimensional variation such as body lengths and widths, half-hose lengths and widths, hose lengths, and so on. It can therefore be assumed that if course length can be kept constant, dimension will remain constant.

Studies Substantiate

This assumption, he said, has been substantiated by the investigations made in the subject of fabric geometry. A large range of plain knitted fabrics ranging from 66-gauge hose to three-gauge outerwear were examined. As an indication of their size and shape, their stitch densities were measured. The loop length of each was also determined and these two parameters were plotted in graphical

(Continued on Page 5)

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form. The hyperbolic nature of the curve obtained indicated that there would be great possibilities from the application of mathematical principles. Various theoretical equations using loop length "1" as the basic variable were developed.

Factors Calculable

Factors such as width, weight, courses per inch, wales per inch, and so on could then be calculated, and the calculations could be checked by actual measurement of other fabrics. All subsequent work over the years has employed and confirmed this theoretical work and indicated the overwhelming importance of loop length and the necessity for its accurate control.

In contrast with the manual instruments developed, the positive feed system is an automatic method. The basic principle is simple. Yarn is fed forward positively at a predetermined rate to the knitting point. This is done by means of a roller, the surface of which consists of a special material of high frictional value; the roller is driven by the machine itself through an appropriate system of gearing.

In Fixed Relation

Rotational speed of the roller is thereby always in a fixed relation to that of the knitting unit, so that when the machine goes faster, as it warms up, for instance, the roller speed increases in the same ratio, and the yarn in contact with it is fed to the machine at an increased rate. For example, if a roller of y inches diameter makes x revolutions per machine revolution, then the length of yarn fed for each machine revolution is $x \pi y$ inches. Thus a course length of $x \pi y$ inches is maintained while the unit operates.

The rate of yarn feed can be changed in two ways. Either the roller diameter or the roller speed can be changed, and one change or other is used according to the machine in question. Thus the H.A.T.R.A. positive feed becomes a system and not just another gadget, said Mr. Stacey.

Considering a range of plain interlock units of various types, built by one manufacturer, he said that any one of the units can have a set of rollers of a particular size fitted, one roller to each feeder. Roller size has been worked out, and is dependent on gauge, machine type, ma-

chine diameter, number of needles, date of manufacture and whether the unit has a gear driven or dog driven dial. When the correct rollers have been fitted they need not be altered. All changes in knitting quality are carried out by changing a pair of bevel gears. These quality change gears, being bevels, are invariably used in pairs.

Loop Length Fixed

For example, a pair of bevels with 28 teeth on the driver and 29 teeth on the driven gear are specific for a loop length of 0.136 in. Therefore, regardless of the difference in gauges or diameters or numbers of needles, or how many of this range of machines there are in a plant, a loop length of 0.136 in. will be obtained by fitting this same pair of gears. This loop length will be obtained on a 1933 machine and the system is so designed that the same loop length will be obtained with the same gears on a 1960 unit.

On some units, it is easier to alter knitting quality by changing roller size instead of roller speed. This method is now used on Terrot machines, although a system of gear changes has been worked out.

The knitting yarn must be kept in contact with the non-slip surface of the rollers. On all the fabric machines mentioned, Mr. Stacey said, the yarn is wrapped round the rollers which are referred to as capstan rollers. A second roller can be used to press the yarn into contact with these capstan rollers. This is then called the nip method.

Hand Operation

Often the operative has to pull the yarn through by hand from the supply package to the knitting point (for example, when running on after a press-off or when trying on a new package). If the yarn stayed in contact with the non-slip roller this pulling through would be impossible, so provision has been made for slipping the yarn automatically from the positive section of the roller on to a section which has a smooth metal surface and which is therefore non-positive. Mr. Stacey, elaborating this point, said that on one range of interlock machines the yarn shipping mechanism is controlled by the movement of the striker block.

A surprising point about the system is that the position of stitch cams no longer has any effect on the knitting quality.

If a machine without positive feed knits without touching it other than to replenish the yarn, variations in fabric weights and dimensions will occur. If tension of the yarn is increased, still without positive feed, the knitting becomes tighter, and this can be carried on to a point where the yarn breaks. If more and more yarn were fed to the needles they would go on accepting it until, following slacken and slacken knitting, a bird's nest was formed.

Alter Yarn Feed Rate

In both these cases, loop length has been altered by factors other than the position of the stitch cams. This shows, he said, just how non-positive and easily disturbed the knitting action is. The positive feed system utilizes this fact, because the second example shows that a complete range of loop lengths can be obtained by altering the rate of yarn feed without moving the stitch cams. Thus if the yarn feed rate is kept constant, irrespective of the position of the stitch cams, the course length remains constant.

Nevertheless, the stitch cam setting affects the tension in the yarn during the knitting. Since the positive feed ensures a constant yarn feed rate, the lower the cams are set the lower down the needles go and obviously the greater becomes the yarn tension.

Thus, although the cam setting does not affect loop length, it does determine knitting tension. Although knitting tension is not very critical because of the elasticity of yarns, Mr. Stacey recommended that the cams should be adjusted to give a tension of three to four grams.

Tension Compensators

The H.A.T.R.A. positive feed system differs from most existing devices in that these devices are tension compensators. The positive feed system automatically controls and maintains the knitting quality and by so doing it ensures constant fabric dimensions. Assuming that yarn count is constant, the system also controls fabric weight and enables calculations of c.p.i., w.p.i., width, weight, and so on, to be

made before the fabric is knitted. Bars caused by feeder variation are avoided and fabric qualities such as shrinkage, stability, and so on are more regular.

At the conclusion of his paper, Mr. Stacey showed a film of the positive feed system in operation. W. A. Dutton, recently elected director of research, provided the film commentary.

At another stage of the conference it was mentioned that the H.A.T.R.A. positive feed rollers are now being made, under an arrangement with the association, by G. Stibbe & Co. Ltd., Leicester. Cost of the individual rollers is said to range from about \$6 to \$9, depending on the type and age of the machine to which they are to be fitted. It was also suggested that further developments of the H.A.T.R.A. positive feed system will shortly enable it to be used on flat bed and jacquard units.

Yarn Packaging

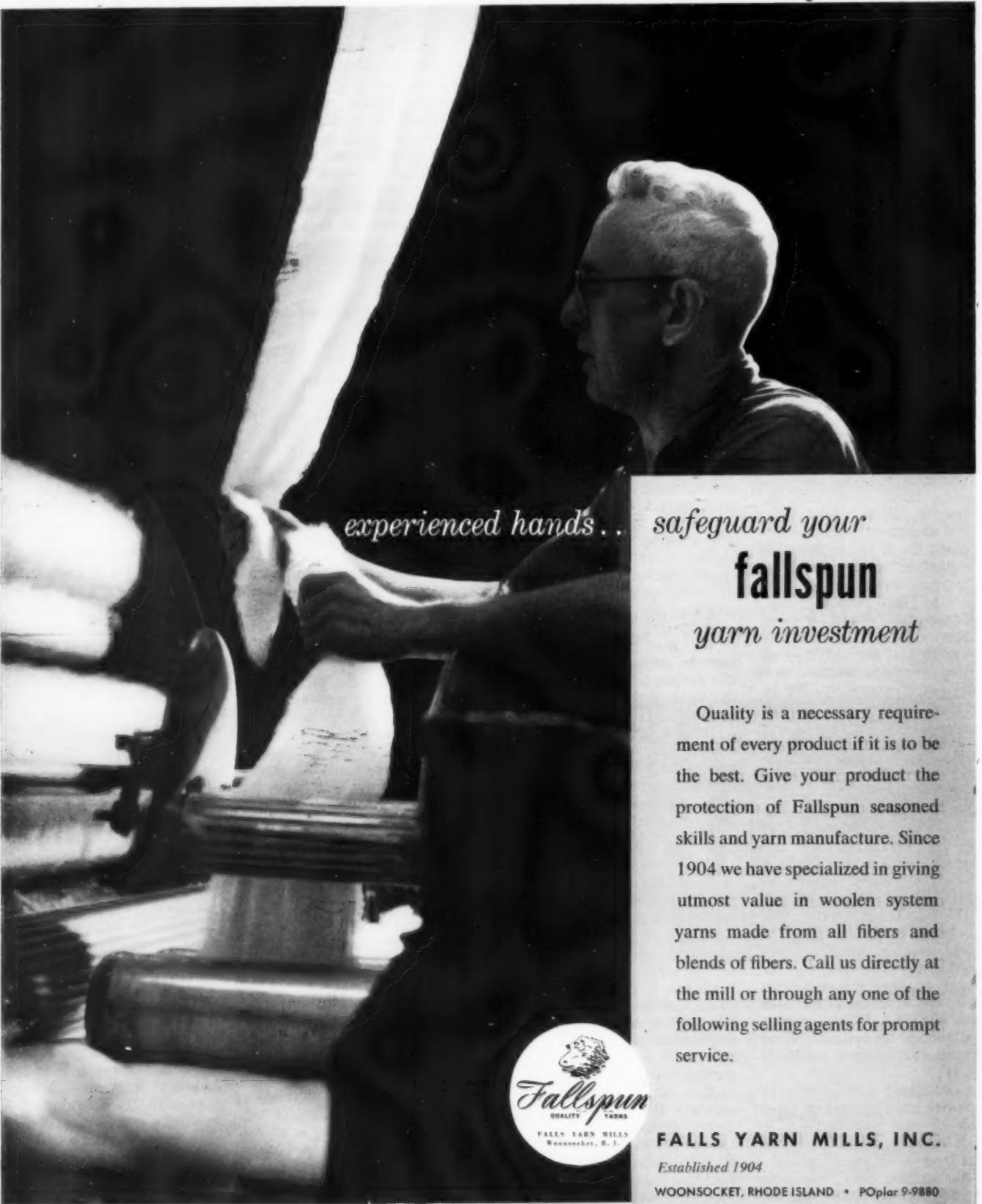
Two technicians from British Nylon Spinners Ltd., gave a joint paper on yarn packaging. D. W. Smith, in the first half, spoke about drawtwist packages of nylon yarn for stocking knitting; Mr. G. A. Clough talked about packages of processed nylon yarn.

Mr. Clough said that in packing yarns every endeavor is made to meet the exact needs of the knitter. The package has to be of the required size and capable of being unwound so that the yarn is removed at a uniform tension without snatching or breaking. Furthermore, if a magazine supply is desired the package must have a tail and good transfer properties.

A cone is normally used, he said, for processed continuous filament nylon yarns since it gives the required take-off properties. The type of cone usually used today is seven inches long with a half taper angle of $3^{\circ}30'$. There has, however, been some departure from this in recent years with the introduction of the jumbo cone which is of the same length but has a half taper angle of $3^{\circ}51'$ and an increased diameter.

Used For Monofil

The jumbo cone has been
(Continued on Page 32)



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Yarn Processing

Wool Still A Major Fiber At Caron Spinning Company

By BENN OLLMAN

ROCHELLE, ILL.—Here in Illinois don't waste your time asking if wool yarn is making a comeback. How can something come back that never really went away in the first place, they want to know. "We never gave up on wool" claims young John Caron, president of Caron Spinning Company. "And we are happy to see its industry-wide resurgence."

About 500 employees, hustling three shifts around the clock keep busy meeting the demand for Caron's quality wool yarns. Wool yarns spun here are used by many of the industry's top knitted outerwear manufacturers. Shipments of hand knitting yarns leave here enroute to distribution points for the nation's leading chain stores.

Founder Ovidas Joseph "O.J." Caron, now chairman of the board, and far from retired at 73, started the company while still in his twenties. At that age he had already gained a reputation as a top notch yarn salesman, representing several Eastern mills. He selected Rochelle, Ill., because it was close to his early headquarters in Chicago. He joined with a partner, J. B. Cameron, in buying the old Vassar Swiss Underwear mill in Rochelle. After rounding up five well weathered Shaw spinning frames they were in the yarn spinning business.

Had 50 Employees

The story of Caron Spinning Company's steady growth since those World War I days has

been told many times. The building that housed the original five Shaw spinning frames has since mushroomed to many times its original dimensions. At the outset, 50 employees toiled to turn out yarns for "O.J.'s" early knitter accounts. Now, 500 workers depend on their jobs with Caron Spinning Co. in Rochelle for their livelihood. Another 300 employees punch in daily at the Robesonia, Pa., plant. And in recent months a long held dream was realized when Caron Spinning Company broke ground for its modern spinning plant in the Netherlands.

Of interest today is Caron Spinning Company's continuous emphasis on wool. Not that the spinning firm has neglected development and production in the synthetic fiber field. Its leadership in working with man-made fibers is widely recognized in the industry. It's just that wool is the specialty. There are many yarn spinning companies in the business that can boast of operating more spindles than Caron. But when it comes to knowledge

of buying, processing and spinning wool, Caron's personnel claim that they can hold their own with any experts.

Caron Spinning Company was recently selected by the editors of the Encyclopedia Britannica to provide source material for an article on wool yarn from the selection of the raw materials to the final product.

Headed By Son

The presidency of the company now is in the hands of the founder's son, John Caron. He is the youngest man on the top management level. Trained as a chemical engineer at Notre Dame University, John Caron also possesses a practical, broad knowledge and background in wool spinning.

Caron Spinning Company has always considered itself as a wool "specialist." The Rochelle, Ill., plant is devoted entirely to spinning wool yarns; at Robesonia, Pa., the firm's highly regarded synthetic fibers are produced.

Caron is among the few major spinning companies that operates its own combing plant. Most yarn spinners buy wool tops from the handful of big firms that produce them. Caron prefers to produce its own. "Better quality control," explains John Caron.

Also unique is the extent of Caron's wool buying network. Each spring a crew of 25 buyers fan out in Wisconsin and Illinois, contracting with farmers for the fine wool raised in this area. The bags of raw wool are trucked from the farms directly to the warehouse at the Rochelle plant.

Wool Buying

Territory wool buying in the western states is handled for Caron by two veteran contractors. These two men, dealing with the huge western style ranches frequently buy a greater poundage of wool than their 25 counterparts in the midwest. Some individual western sheep growers with flocks running into the thousands account for more wool production than an entire Wisconsin or Illinois county.

Wool from the western sheep ranches is shipped to Caron's warehouse in Idaho. There a sorting and grading operation makes the wool ready for shipment to the Rochelle plant as needed.

This buying network each year purchases about 1 1/4 million pounds of wool. Prices paid to the Caron buyer-contractors for the wool is based on a quality scale. Through the years the

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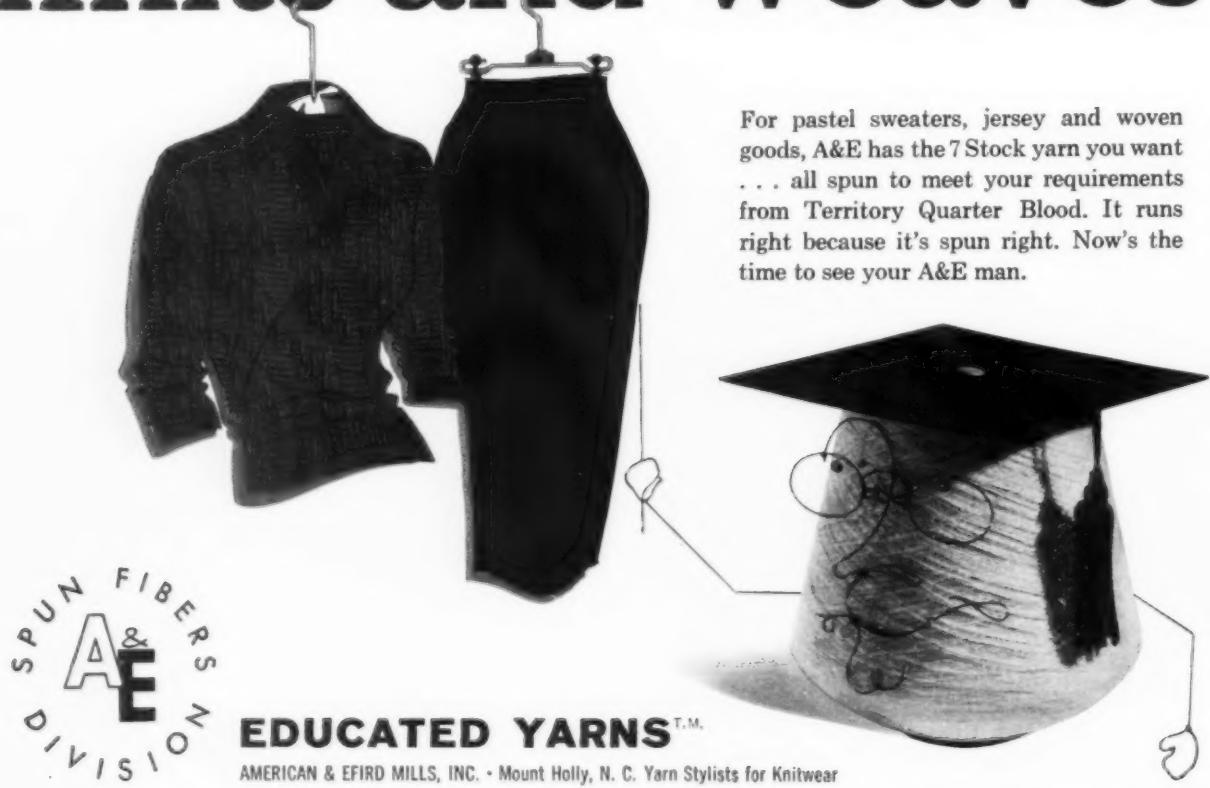


Joe Kaufman, left, a wool buyer for 63 years, claims he bought Caron Spinning Company's first bag of wool for its Rochelle, Ill., plant. Here the venerable Joe Kaufman, and expert wool grader George Thompson are checking over a shipment of grease wool.



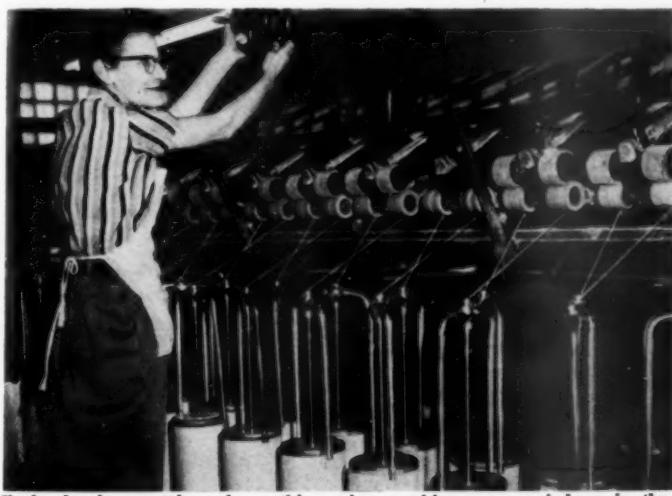
Caron Spinning Company uses an endless conveyor belt system to speed its raw wool sorting operation. Here, skilled sorters are separating the various grades of wool. At the other end of the line, two men open the bags and spread the fleeces, preparing them for examination by the sorters.

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Early developmental work on this roving machine was carried on in the Caron Rochelle plant. "It helped solve a quality bottle neck in the roving department," claims John Caron, president.

growers have learned that the Caron buyers pay premium prices for top quality fleeces. The buyers try to buy their wool fleeces from the same growers in a section year after year to insure stable quality.

In 1952 the last big shipment of foreign raised wool reached the Rochelle, Ill., plant for spinning. That was the last year Caron's buyers scouted growers in Australia, New Zealand, Argentina, Chile and Uruguay in search of wool.

Dropped Persian Wool

What happened? "The same thing hit us that affected every American yarn spinner," explains John Caron. "We discontinued buying foreign wool for two reasons: (1) wool prices shot sky high because of the Korean War, and (2) that was the year when synthetic fibers made their initial impact on the knitwear field—interest in wool was at its lowest point at that time."

"Today's \$64 question," adds John Caron "are these—will the current resurgence of interest in wool lead to a return to raw wool purchasing from foreign countries? Are we going to have to rely again on our former sources for raw wool in other countries? And finally, to what extent is this a real, sizeable resurgence?"

Should the demand for wool yarns continue to mount, and require imports of raw wool, the Caron organization is in an enviable position, he believes. "We still have our foreign contacts and practical background in global wool buying."

A number of important mill developments in the wool spinning industry can be credited to experimentation carried on here. Most important was some of the early developmental work done at the Rochelle plant on roving machinery. Roving had long been a quality bottle neck. Work here helped usher in the first quality break through in wool yarn spinning, it is claimed.

As the result of efforts here by Eric Powell, an effective roving machine was produced at the plant. The first one, a hand-made job, was placed in production here. Others were produced in 1950 in Italy.

Caron engineers work closely with Whitin Machine Works in developing other mill machinery. The Whitin Model BW Spinning Frame was in operation in the Caron plant before it was shown to the trade.

Consistent efforts are also aimed at stimulating farmers and sheep growers to improve the quality of their herds. The firm cooperates with the American Sheep Growers' Council in its programs to raise standards. John Caron recently visited several western university campuses where he spoke to agricultural school students and faculty members. His topic: the need for wool raisers to improve their production.

What problems are inherent in the current upsurge in wool usage? Uppermost, according to John Caron, is the fluctuating price of the raw wool supply.

"The trouble with wool" he



Another piece of equipment which marked a big step ahead in yarn spinning is this Whitin Machine Works Model BW spinning frame. Early work in its development was done in Caron's Rochelle, Ill., plant.

says, "is that it is not entirely a domestic product. Supplies of wool in other parts of the world have a direct effect on the prices charged by our domestic producers."

Warner & Swasey Has New Ball-Doffer Device

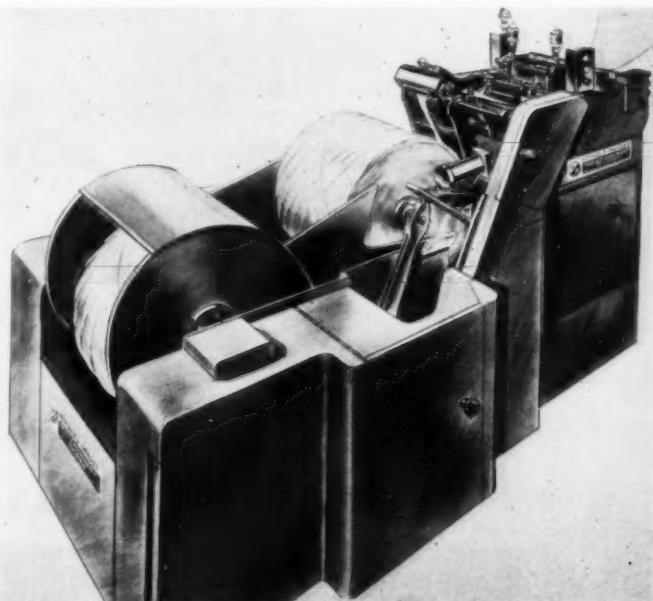
CLEVELAND, Ohio — The Warner & Swasey Company, here, has developed a new self-contained ball-doffer unit designed to wind, doff and resume winding a new ball without operator assistance. It is to be applied to pin drafter intersecting draw frames.

Capable of handling 18 by 24 inch balls weighing up to 50 pounds, the new unit is said to

improve operator and machine efficiency and reduce downtime in precombing and top making operations. The doffing cycle, including machine stop, doff and restart, requires less than 12 seconds.

The ball-doffer becomes a part of the M-3700 Warner & Swasey Pin Drafter and can be used with the new Servo-Drafter model. It is powered by its own $\frac{1}{2}$ horsepower, three phase, 60 cycle motor, electrically synchronized with the pin drafter main drive motor. Fail-safe stop motions monitor all functions.

The automatic doffer's semi-circular bin can be set up to deliver finished balls.



New Warner & Swasey Ball-Doffer.



Selective Rack

3
4
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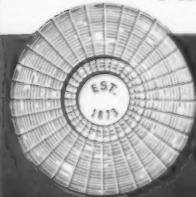
CUT BULKIES

- Three needle selective rack
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- Three color stripes
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MACHINES
UP TO 14 CUT

Knitwear Fashions From Abroad**Italian Pullovers And Jackets In A Sea-Faring Spirit**

The "little jacket" could very well top a slim tailored skirt or at-home slacks. Here, however, Continental styling gives it a V-line middy type collar and places it in a seascape. The silhouette flares slightly and a bow provides decor for the three-quarter sleeved ribbed cardigan.



The combination of open meshy texture with a flat knit surface constitutes interest in easy slipovers for members of the "crew." Milady's model, a collar and placket design, has flat knit sleeves and collar. The masculine version is short-sleeved and textured only at sleeves and front. Note the patch pocket.



A long-sleeved knit shirt and collarless jacket pair off for a seaside outing in Italy. The otherwise open and easy jacket boasts a one-button closure and round neckline. Its companion polo comes with vertical stripes, collar and placket and ribbed inset cuffs.



The stripe-trimmed middy and double-breasted blazer, at right, are set for sailing. The feminine slipover has three-quarter sleeves, a V-neckline and a striped string tie that echoes the theme of the three-quarter sleeve cuffs. The blazer, with notched collar and button trims at sleeves, is a rugged bulky knit.



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Ladies' And Misses'**Cotton Knits And Orlon Bulkies Generate Orders At Summer Show**

PHILADELPHIA, Pa.—Retailers sought cotton knit shirts and bulky white Orlon cardigans for the summer at the Middle Atlantic Fashion Exhibitors show at the Benjamin Franklin Hotel, here.

The late Easter was said to have put a damper on retail store sales in some categories, but exhibitors of knitwear reported a satisfactory ordering pace in sweaters and shirts. Traffic was considered normal for a show at this time of year; the buyers that did attend placed goodly-sized orders in many of the categories of goods.

Bulky cardigans, still firmly entrenched as popular sweater styles, moved well as summer coverups. They were particularly in demand in white Orlon with small collars. They moved well in conventional stitches, as well as novelty cables or puff stitch effects.

Queen Knitting Mills had particularly good success with its Queen Casual cotton knit blouses. Martin Grossman, representing Queen, noted that sleeveless and three-quarter sleeved shirts were in demand.

Many of the best-selling styles feature the popular boat neck, which appears frequently on wide striped shirts.

The nautical look highlights Queen's shirts. Some models feature a side split, the edges of which are sometimes rounded. Golds, blues and pewter green were favored colors.

A particularly popular bulky knit at B & B Sweater Mills is a model with wide stripes and collar, Alfred M. Pelzman said. The bulky was available in many color combinations, such as green and stone with white.

Brushed Wool

Hecht & Biern's line of "Jernat" sweaters and knit dresses includes brushed wool numbers. Many of the high-style models are in flecked colors. Fine-gauge fur blend pullovers rely heavily on neckline interest, incorporating such features as loosely tied ascots beneath collared V-necks.

Larry Berkoff, representing the firm, noted good response to one-piece knit dresses. Included in this line is a two-piece model combining a dress and full length coat.



These lightweight and tailored sweater blouses, excellent suit companions, are Continental offerings. The short-sleeved number, at left, is banded in a contrasting hue at cuffs and square neckline. The placket picks up the theme. Horizontal stripes in two colors decorate the sleeveless slipover.



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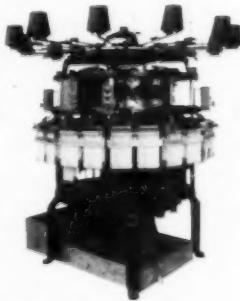
Now the LHB-6 offers quality "Bulky knits" in 3 or 4 cut 30" diameter with all the versatile features of the LH-6.

A machine designed especially for "bulky knit" fabrics with a wide range of pattern possibilities including half cardigan, links and links, jersey, reverse jersey or in a variety of combinations with panels, self designs, tuck effects and other fancy stitches all with various rib cuffs.

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HEMPHILL BANNER Knitting Machines
A subsidiary of Draper Corporation
Hopedale, Mass.



LHB-6

Ladies' And Misses'**Mannish Themes
Used By Jayknit**

The mannish look shares a style prominence with decidedly feminine treatments in the Jayknit Company fall collection.

Compositions include Orlon; a blend of 75 percent lamb's wool and 25 per cent mohair; a fur blend of 60 percent lamb's wool, 20 percent each of nylon and fur fiber; and a blend of Acrilan and Acrilan 16.

Bulky, brushed and napped and sheared treatments are given attention. Bulkies are often of longer body length running to 22 or so inches.

Shawl Collar

More or less in a masculine inspired spirit are a shawl collared Orlon pullover, at \$3.98, available in green with black edging and gold trim; and a long-sleeved lamb's wool and mohair sweater-shirt with two-button placket, at \$5.98.

The boat neck is paid homage in horizontally striped brushed pullovers of the Acri-

(Continued on Page 17)



Slipovers in the Jayknit fall line include: a multi-color tweed fur blend with asymmetric collar decor; a napped and sheared Orlon model with ribbed trims; and an Orlon bulky with shawl collar.

The Lion Knitting Mills Co.

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need to change cams. (Differential can be adjusted even when machine is in operation by knee control—available on request).

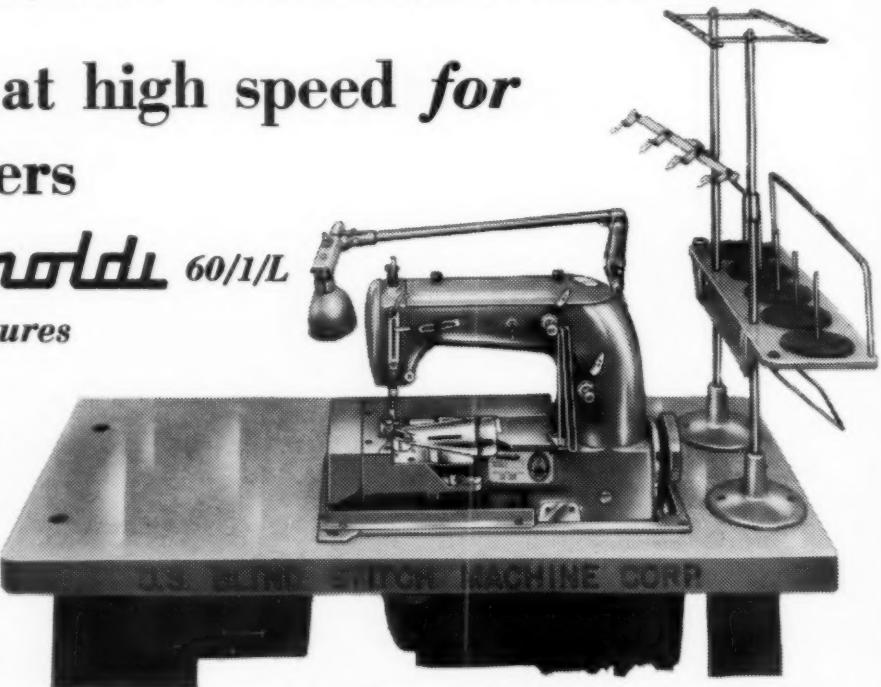
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Lackawanna 4-9144 [ILLUSTRATION]

lan blend or of Orlon. Another boat neck number is in ribbed Orlon and features "pirate stripes." A further ribbed bulky has an allover square motif and boasts a sewn down turtleneck.

In the cardigan mood are an Orlon bulky with a jacket look, at \$7.98; a lamb's wool and mohair collared treatment in a vertically ribbed fabric with a frosted look, at \$5.98.

Napped And Sheared

Among the napped and sheared novelties is a short-sleeved slipover, at \$2.98, with novelty trim at the collar and three buttons. A similarly composed slipover with push up sleeves is rib-trimmed by a cowl collar and asymmetric tab arrangement at left.

Fur blend novelties, all in a somewhat multi-tweed effect, are of slipover styling. They come with cowls, button-trimmed pointed collars and button-detailed asymmetric drapes.

Interlock Orlon

An interlock Orlon set consists of a slipover, at \$1.98, and cardigan, at \$2.98, with a double nuppen stitch of a feathery sort decorating necklines. There are staple cardigans, at \$5.98, and slippers, at \$3.98, in the napped and sheared category.

White, black and beige are considered staples in the line. High color lights include stone green, a red, a royal, a mustardy gold and turquoise.

Volume Down At Upstate Market; Weather Cited

BUFFALO, N. Y.—Attendance and business volume were off about 10 percent at the summer show of the Women's Apparel Club of New York State in the Hotel Statler-Hilton on March 27 and 28. Salesmen said the decline in business actually was not as sharp as they had anticipated in view of the highly unfavorable spring selling weather in the Buffalo area.

March was one of the worst months from a weather standpoint experienced by Western New York retailers in many years. As a result, sales of spring apparel were severely retarded. This affected the open-to-buy position of retailers attending the market and also was the prin-

cipal reason that some retailers stayed away.

But those who registered at the show bought quite readily and retailers said that they were agreeably surprised at the amount of business written in view of high retail inventories and lagging sales.

Summer Ordering

Retailers showed a willingness to commit themselves on some summer lines, including swimwear, knit dresses, sweaters and other knitted outerwear. However, merchants said they will be in more of a buying mood for this merchandise following Easter when they hope to have their inventories in much better balance.

Knitwear salesmen expect to write substantial summer business on road trips following Easter, picking up some of the summer trade they failed to write earlier in the season.

Retailers are optimistic over summer business prospects in swimwear, sweaters and other knitwear. Merchants said that unseasonal weather was entirely to blame for the lagging tendencies in March business. They reported a sharp improvement in store traffic and sales during the final week of March when the weather finally turned warm.

Swimwear Interest

Merchants from various parts of Western New York and Northwestern Pennsylvania talked in glowing terms of the amount of swimwear business they expect to do this summer, especially if the summer is hot.

Retailers also anticipate a good market for summer weight sweaters, cotton knit dresses and cotton knit separates.

Merchants said they are well pleased with swimwear styles exhibited at the market. They reported that some of their initial swimwear presentations at the store level have met good consumer interest and acceptance, pointing to a big swimwear season.

The outlook for summer sportswear business in cotton knits is very bright, retailers said, due to attractive styles and colors featured by manufacturers. Some merchants feel that cotton knit separates may reach a new peak of fashion importance this summer.

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Ladies' And Misses'**Catalina Keynotes
Costume Theme
In Fall Knitwear**

LOS ANGELES, Calif. — Elegance, texture, color and the look of the costume describe the Catalina fall collection of dresses and separates designed by Kay Gleis and Irene Innes.

Outstanding are the rich fashion colors, led by brown tones, such as fawn and oak; red wine also plays an important role. Old gold, blue ink, moss green, black and two shades of gray are also prominent in the new line.

To achieve maximum coordination, all colors are shown in a basic sheath, knit skirts and pants and repeated in combinations for patterned jackets that can top any of the sheaths or separates for a costume look. The basic sheath features a high neckline, slightly bloused top and self belt over an elasticized waistline. Skirts and pants are classic in style and detailing.

Another important dress is "Mayfair," an easy, basic sheath

in Catalina's special matelasse knit, combining green or brown with black in a sculptured silhouette.

Jacquard Patterns

Pattern news is seen in the always-important Catalina jacquard line of casual cardigan jackets. One gay, important pattern is "Tree of Life," an embroidered-looking pattern adapted from an old Persian rug and executed in gold, green and red on a white or black background.

Another outstanding design is the "Imperial," adapted from silk damask wallpaper in a rich old gold and black pattern on white, or moss green with black. "Medallion" combines black, gray and white or two shades of gray with gold. It was adapted from a 14th century Persian pattern. Mosaic and paisley patterns complete the jacquard group.

Two-Piece Suits

The suit look is achieved by teaming slim skirts with jackets in plain knits. This group includes a two-tone pin stripe in a dimensional effect, with notched collar and flap pockets bound in solid color; an elegant black knit

trimmed with black grosgrain ribbon; and a smart suit shown in gray with curved pockets and standaway collar.

The "homespun" or "hand-knit" look is the feature of the casual group, exemplified in a belted pullover in a nubby knit coordinated with a textured, pleated skirt; and in a cardigan or middy pullover which can be worn with coordinated worsted gored skirt or neatly-checked pants.

Mohair is used in a cardigan fashioned with a featherweight stitch in a brown and white plaid effect and in a loose, lacy honeycomb cardigan with an easy shawl collar.

Italian Sweater Jacket Active In Mohair, Wool

The Italian sweater jacket is reportedly shaping up as a current best seller among imported sweaters in misses' sportswear departments. It is featured in mohair or wool and is getting action in a wide variety of spring shades.

Women are favoring the colorful jackets for spring and summer wear with a wide vari-

ety of costumes. Tweed, boucle and cable treatments are among the highlights. Large collars come in for the major style attention in models singled out by retailers as important.

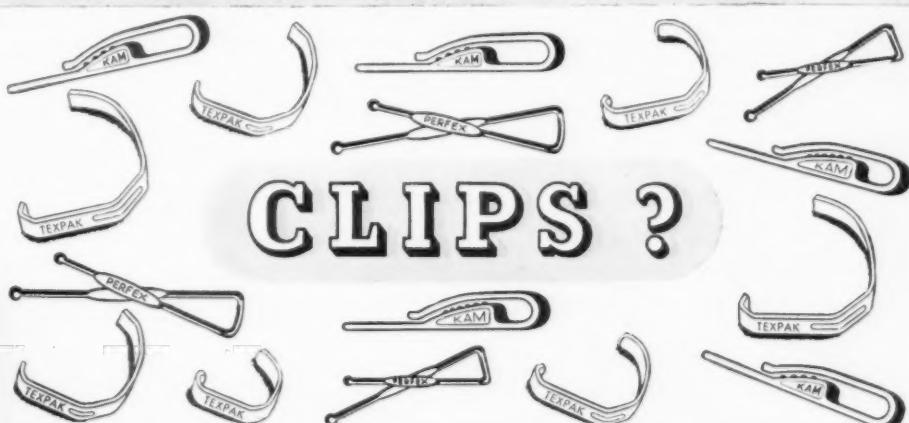
Mohair Cardigan

A mohair cardigan with a large collar in a contrasting stitch comes in aqua, pink, chartreuse or mauve. An interesting collar completes a boucle textured mohair model which buttons to the neck and is offered in mauve, cherry, green or blue. Another mohair novelty has a V-neck framed by a large collar, as well as raglan sleeves and two pockets. White trims the front against a blue, pink, aqua or yellow ground.

Another trio has been well received in wool, according to retailers. Highlights are: a collared cardigan which buttons to the neck, in white, aqua, cherry, orange and canary yellow; a tweedy cardigan, which reiterates a high neckline closure and has a large collar and pockets, in navy, brown, red or gray, all with white; and a cabled tuxedo style with full-fashioned raglan sleeves, in white, blue, cherry or beige.



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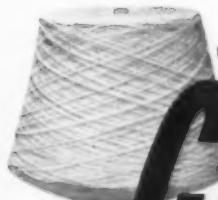


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Swimwear**Simple Suit Tops
In Darlene Range**

Top sellers in the Darlene Knitwear line of knitted swim suits have proven to be uncluttered one-piece numbers with a bit of well integrated detailing. Ban-Lon and rubber appear knit together in a fabric with "all-way" stretch. A moderate use of pin and wider striping is excellent.

Illustrating the demand for almost classic simplicity is the favorite in the line, a solid sheath, at \$11.75, wholesaling, with somewhat pointed scalloping edging the bodice and back and outlining the attached straps.

Also selling extremely well is a basic maillot, at \$10.50, with narrow attached straps. Narrow stripes run horizontally on a sheath, wholesaling at \$12.75, with a square bodice treatment in solid white.

Another notable sheath, at \$11.75, is circled by pin stripes which are made to run vertically on the straps and bodice banding. A V-neck number, at \$12.75, is generally pin striped but incorporates a wider stripe arrangement.

A Ban-Lon top, at \$7.75, comes with shallow scoop neckline and is circled by graduating stripes which tend to get rather wide. It goes equally well with a suit which is horizontally striped in the same narrow proportions throughout or one which utilizes graduating stripes. Both suits wholesale at the \$12.75 point.

There is a pair of two-piece suits in the Darlene range, which account for considerable novelty. One Bikini, at \$8.50, combines solid and horizontally striped sections in its brief trunks. The other, a solid black knit at \$9.25, has an interesting dip arrangement at the bodice front which is reiterated at maillot back. Bras utilize nylon tricot over foam rubber in their inner construction.

**Jantzen In License
Pact With Caracas Firm**

PORLAND, Ore. — Jantzen, Inc., has signed a contract with Industrias HA-RI of Caracas, Venezuela, under which the latter firm will manufacture certain Jantzen merchandise through a licensee arrangement.



Satinette Bikini by Caltex of California is softly Shirred at the hipline and Pellon lined at the bra. It teams with a baby doll cover-up that ties in back like a pinafore. Colors are red or blue and green on white.



A boy short silhouette serves as the basis for Caltex of California's herringbone cotton print accented horizontally with stripes. It is part of a "Tweed Set" which includes a matching three-quarter sleeve coat flared from a lowered waistline.

Announcement of the agreement was made by Paul DeKoninck, president of Jantzen. Manfredo Hausmann, managing director of Industrias HA-RI, represented his firm at the contract signing.

Industrias HA-RI will manufacture Jantzen cotton knit T-shirts and other cotton sportswear items for men, women and children. The South American firm will also serve as sales representatives for Jantzen swim suits, foundations and bras, which are manufactured here and shipped directly to retailers in Venezuela.

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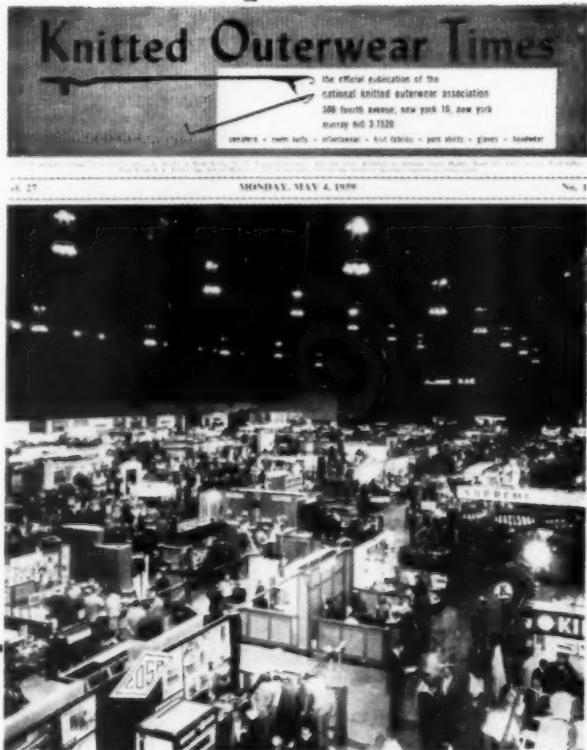
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Men's Wear**Gilmar Offering
'Longs,' 'Stouts'**

PHILADELPHIA, Pa. — Catering to the special sweater needs of the stout man and the very tall man has increased business for Gilmar Knitwear Co., here, which distributes men's sweaters in natural and synthetic fibers under its Cornwall label.

Nathan Sopher, head of the firm, began his career in the knitting industry as a young boy, making special sweaters for fat men, at the Parisian Knitting Mills, Montreal, Canada.

Since Gilmar added "stouts" and "longs" to its sweater line less than two months ago, a substantial quantity of these special size sweaters has already been sold. Mr. Sopher feels he is only scratching the surface of a virtually untapped market.

Variety And Style

For years the fat man and the very tall man were to a large extent "forgotten men" who had very little choice except a few staple styles in sweaters, Mr. Sopher notes. Gilmar's aim is to

bring variety and high styling now current in regular size men's sweaters into the fat and tall men's size categories.

After leaving Montreal in 1923, Mr. Sopher came to Philadelphia to work as stylist and then general manager of the old Durable Knitting Mills. In 1937 he founded his own company, Gilmar Knitting Mills, which at one time was one of the leading manufacturers of men's and boys' sweaters, here, turning out over 1,000 dozen sweaters a week.

Concentrated On Styling

In 1951 Mr. Sopher gave up the actual manufacturing end of the sweater business to devote his full efforts to styling, distribution and sales. Arrangements were made with other mills to handle manufacture of Gilmar's sweaters to the firm's specifications, with Mr. Sopher continuing to style the line.

The new "stouts" and "longs" are produced by several mills which Mr. Sopher visits several days a week to supervise construction. Gilmar also has a full line of regular sized highly styled sweaters for men, in various price categories.

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24 design wheels, 24 feeds.

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Children's Wear**Weather Deters
Summer Ordering
At Upstate Mart**

BUFFALO, N. Y.—Sweatshirts and other knitwear lines had limited action at the summer market of the New York State Infants' & Children's Wear Association in the Hotel Statler-Hilton, April 3 to 5.

Attendance by retailers at this market somewhat below par. Exhibitors blamed the poor showing of early spring retail business in the Western New York area, resulting from the coldest and stormiest March in years.

Because the show came on the heels of this unfavorable weather period, retailers were not in a very enthusiastic buying mood. Many merchants indicated they wanted to wait until after Easter to place additional orders for summer goods. By that time they expect their inventories to be worked down into more normal balance.

Pre-Easter Volume

Children's wear merchants said they hoped to rack up impressive volume during the remainder of the pre-Easter season, hoping to make up early season losses. Given good business in the first half of April, they will be in a more receptive mood for summer merchandise after Easter, they indicated.

The large stores already have made most of their summer commitments and shopped the Buffalo show only for fill-ins on summer goods. But many of the smaller stores still have considerable buying to do and indicate-

tions are there will be a scramble for summer goods during the latter part of April and early May as small merchants seek to place orders for fast delivery.

Most of the lines exhibited at this market consisted of summer dresses, sportswear and accessories. Knitted outerwear lines had rather limited representation, as is customary for the summer show.

Salesmen Optimistic

Several salesmen reported they wrote a surprising volume of business in view of the retarded spring business situation in Western New York. They said their accounts were placing somewhat smaller orders than a year ago but that there was considerable optimism over summer business prospects.

Several retailers voiced the opinion that even with a strong finish in Easter trade, the spring season will not be a very satisfactory one. They lost too much ground earlier to come out of the spring period with plus figures, said these retailers.

The attitude of most infants' and children's wear merchants at the market was a desire to get out of the spring operation as quickly as possible and move into summer selling which is expected to produce far better results.

Personals**Arthur Millman Engaged;
Son Of Milpac Official**

Arthur J. Millman, son of Mr. and Mrs. Max Millman of Milpac Dyeing Co., Inc., and Knit Goods Brushing and Finishing Co., Inc., has become engaged to Betsy Gail Eichler, daughter of Mr. and Mrs. Julian J. Eichler.

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STOLL "AJUM"

Fully automatic double system Jacquard-transfer machine. Unlimited pattern possibilities, with automatic Jacquard and Transfer on both needle beds. Precision construction, with 6 yarn slide bars and 15 yarn carriers, insures constant production. 63" width. Gauges 5 thru 14.

STOLL "UFD"

A new, fully automatic double system Transfer machine for fancy patterns. Transfer with high and low butt needles and push jacks on both needle beds. 8 yarn slide bars and 8 yarn carriers, 63" width. Gauges 5 thru 14. Six needle selective rack.

NEW FEATURE: On request, available with 2-speed motor, automatically controlled to reduce speeds to half for loose course.

STOLL "KAMO/j"

Today's most popular and versatile Jacquard Border machine for multi-colored trimmings. Pattern possibilities in tubular; 1:1; 2:2; cardigan and half cardigan; double Jacquard; and roll-welt. 3 yarn slide bars and 6 yarn carriers. 16" width. Gauges 7 thru 14.

STOLL "JBO"

Hand flat knitting machine, type "Industry". High and low butt needles; 4 yarn slide bars; striping attachment for 4 colors; mechanical 2:2 attachment, which can also knit 1:1 stitch and tuck in same row. On request, plush and plating attachments. 40" and 48" width. Gauges 2 1/2 to 14.

We Invite Your Inquiries

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SUCCESSOR TO GROSSER KNITTING MACHINE CO.

Knitted Yardgoods

Fair-Tex Offers Textured, Pile Fabrics For Fall

The fall 1960 collection by Fair-Tex Mills, Inc., includes a wide array of textured knits, brushed and high pile cloths. Orlon is important, along with cotton, wool, stretch nylon and Acrilan.

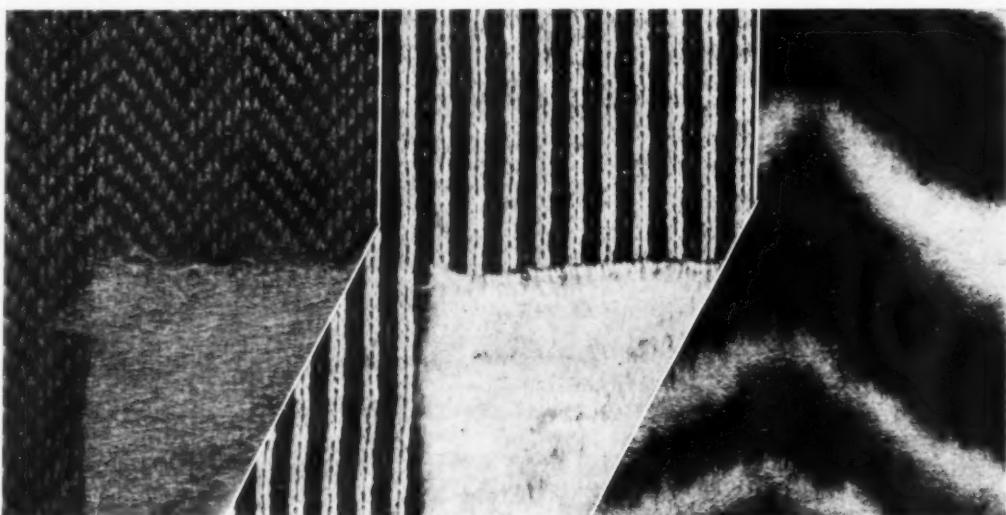
Fair-Tex staples include 100 percent Orlon; a blend of Orlon with 20 percent wool; Acrilan and all cotton jerseys in 52 and 54 inch widths.

Textured fabrics are highlighted in a variety of compositions. Knits which have a woven look are also featured. The Continental influence is noticeable in such goods as a heavy Orlon cloth in an Italian rib stitch.

Color Picture

Loden, black, red, gray and tones of gold and brown are the predominating shades in both the firm's staple and novelty yardgoods.

An unusual Fair-Tex group includes high pile Orlon cloths with brushed Orlon backs. The



New textured and high-pile fabrics in Fair-Tex line.

backings are in either solid or striped patterns. One such cloth, in a black and tan combination, has a herringbone design on the reverse side. Another has a boldly striped backing in the season's high fashion shades.

An Orlon face cloth, with a cotton back, emulates Persian lamb. The fabric, called Fair-Curl, has an interesting hand. A smooth hand is stressed once

again in a suede effect cloth in 100 percent Orlon. This brushed goods is available in sage green and suede brown.

Herringbone Pattern

A cloth of 86 percent Orlon and 14 percent wool, features a herringbone pattern. The solid color back is brushed for warmth. The fabric is offered in gray or blue with black. Orlon Cantreec is highlighted in a nar-

rowly ribbed cloth with an interesting silky hand. It is offered in 50 inch width.

Printed Orlon pile is playing an important role for fall in such patterns as the leopard skin, zebra and Indian blanket. A gray and gold plaid print is also worthy of mention.

Fair-Tex is offering a line of cotton knits for fall 1960, along with its group of heavier cloths.

There's so much that's new in the knitting field these days that it's understandable that you might be plagued with technical problems concerning dyeing, colors, "handle," etc.

We'd like to show you how you can be relieved of these problems—by entrusting your dyeing work to COLOR-KNIT . . . a group of technical experts dedicated to doing the best possible piece dyeing job in the knitted outerwear industry.

Try us . . . you'll be glad you did!
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- Eliminates pulling back, through itself, the overseam thread overrun with a knitting needle or hook.
- We can supply this device for attachment to the Singer #269-W9 Bar Tack Machine, the Pfaff 3334-1 Bar Tack machine and the Reece 52 Bar Tack or button hole machine.

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Mill News

Lloyd Paul New Head Of Zwicker Knitting Mills

APPLETON, Wisc.—Lloyd E. Paul has been elected president of Zwicker Knitting Mills, here, manufacturer of knit gloves and mittens. He succeeds Dewey Zwicker, who was named board chairman. Mr. Zwicker had been president since 1929.

Mr. Paul joined Zwicker in 1933 and was made mill manager in 1940, sales manager in 1947, a director in 1950 and executive vice president in 1956. He is currently chairman of the executive committee of the American Knit Glove Association.

Re-elected officers are: John H. Zwicker and Robert W. Ebbene, vice presidents; Robert R. Wuerch, treasurer; and David Zwicker, assistant secretary. Dewey and John Zwicker, Mr. Paul and Mr. Wuerch were named to the board of directors.

Lenore Friedman Fashion Coordinator At Princeton

The appointment of Lenore Friedman as fashion coordinator for Princeton Knitting Mills, Inc., was announced by Max



L. E. PAUL

Doff, president.

In her new post, Miss Friedman will develop and coordinate colors among the firm's various divisions. In addition to her publicity activities, she will work closely with Samuel Silverman, advertising and sales promotion manager and will be in direct contact with the fashion and home furnishings market.

Prior to joining Princeton, Miss Friedman was an account executive at the Roy Bernard Company and for five years previously was fashion promotion director at Native Laces and Textiles, Inc., and its Natona Mills subsidiary.

MODEL F8
ALEMANIA—SEYFERT & DONNER WEST

**The only single lock flat power machine with
71" NEEDLE BEDS
63" Needle Beds also available**

**Additional needle space for more economical
production of trimmings and garments.**

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MODERN — VERSATILE — EASY TO HANDLE

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Name Van der Linden To Kopelowitz Sales Force

Joseph Kopelowitz, Inc., Brooklyn used knitting machinery dealer, has expanded its sales staff to include Joe Van der Linden, formerly with Turner-Halsey Co.

Mr. Van der Linden will travel throughout the United States and Canada for Kopelowitz. He holds a degree in textile engineering from Lowell Technological Institute.

Sargon Knitwear Moves To New Showroom Site

Sargon Knitwear Corp. has opened new showrooms in Suite 505 at 112 West 34th Street, New York City. The firm celebrated the opening at a cocktail party on April 22.

Synthetic Fibers

Dacron Production Begun At New Du Pont Plant

WILMINGTON, Del. — The Du Pont Company began commercial production on April 19 of Dacron, its polyester fiber, at a new multi-million dollar plant in Old Hickory, Tenn.

The facility adjoins the company's rayon and cellophane plants

and the recently completed unit which is making dimethylterephthalate, the principal ingredient used in the manufacture of Dacron. Some 500 people are employed in the new enterprise in addition to about 1,500 engaged in producing rayon.

The unit which got underway last week is part of a whole new plant which will not reach its full production stage for many months. At its peak, the plant will be capable of producing 56,000,000 pounds of Dacron staple and filament annually. Initial production at Old Hickory will be almost exclusively 1.5 denier Dacron.

Haller To Manage Fibers Lab For Cyanamid

Herbert C. Haller has been named manager of the Bound Brook, N. J., fibers application laboratory of American Cyanamid Company, it was announced by Dr. Nat H. Marsh, director of research and development of the fibers division.

Previously, Mr. Haller was assistant to the president of the American Conditioning House, Inc., Boston, where his duties included consultation on quality control techniques for yarn man-

ufacturing, dyeing and finishing.

Before that, he was director of research for Bernhard Altmann International Corp., a director of research for S. Stroock & Co. and an assistant research director for the Forstmann Woolens Co. Mr. Haller previously was with Cyanamid from 1936 to 1938.

Seidel In New Dow Post As Merchandise Mgr.

WILLIAMSBURG, Va. — Leon Seidel has been named merchandise manager for filament products at Dow Chemical Company, Amos L. Ruddock, sales manager, announced.

Previously customer service representative, Mr. Seidel will be transferred from Dow's Williamsburg fiber headquarters to the New York offices to assume his new post. He will report to A. S. Gould, New York office manager.

In his new position, Mr. Seidel will supervise merchandising activities for Lurex metallic yarns and Rovana saran micro-tape for the textile fibers department. Before joining Dow, he was with the Dobeckmum Company.

Kenneth Loughlin Elected President Of Celanese

Kenneth C. Loughlin has been elected president of the Celanese Corporation of America, succeeding Harold Blancke. Mr. Loughlin was the company's executive vice president since 1956 and a director since 1954. He joined the company in 1929.

Consultants

Expansion Announced By Management Associates

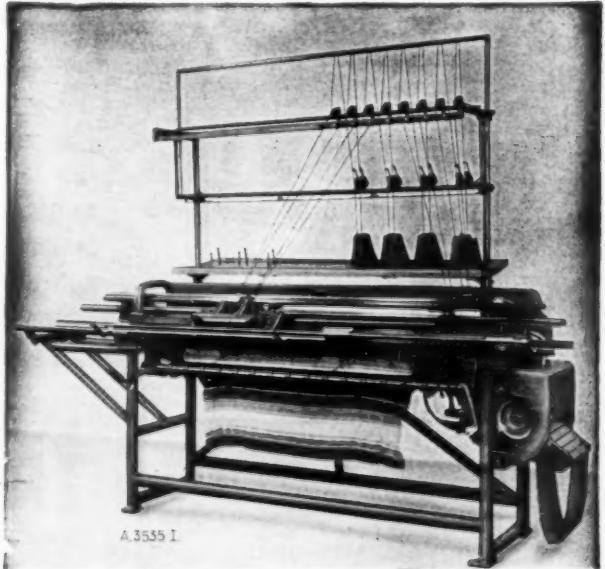
PHILADELPHIA, Pa.—Management Associates, Inc., of this city, has expanded to include the partners of Feiner Associates of Ardmore, Pa., and New York City and three other firms. H. L. Feiner, head of Feiner, has been elected executive vice president and treasurer.

According to Daniel J. Cantor, president, the expanded organization, will include professional consultants and specialists in organization, planning, marketing and merchandising, market research, cost control, data processing, psychological testing, economics and engineering. Mr. Feiner will direct activities in the apparel and textile fields.

- "DC"** for bottoms, cuffs and novelty trimmings
- "DSC"** with independent high or low butt selection for novelty trimmings
- "DRC"** with independent high or low butt selection and stitch transfer. Novelty trimmings with lacy effects
- "BAN"** Jacquard and Rib Intarsia garments or collars
- "BARB"** for full fashioned collars, Jersey Intarsia sweaters
- "CAL"** for true cable stitch patterns, Links and Intarsia garments

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Dyes & Chemicals

Sandoz Introduces New Golden Yellow Vat Dye

Sandoz, Inc., has introduced a new vat dye, Sandothrene Golden Yellow NRK Double Paste Ultrasperse, recommended for pad-steam, Williams unit, package and pigment pad-jig methods. It may also be printed by flash and conventional aging methods.

According to the company, the new dye has good washfastness in all depths, good lightfastness in medium to dark depths and fastness to peroxide. It is claimed to be level dyeing, non-migrating and to show a minimum of shade change, with no loss of lightfastness when given the appropriate resin and catalyst after-treatment.

ISCC Color Chart To Show 230 Shades

PHILADELPHIA, Pa.—A new color standards chart will be made available to the textile industry it was disclosed here at the 29th annual meeting of the Inter-Society Color Council.

The color chart will be made

available in three to six months, according to ISCC representatives, and it is hoped that it will help introduce orderly color procedures.

Of the 267 colors listed by the ISCC, 230 are shown and named. The others exist in theory and cannot be physically reproduced, according to R. E. Pike, E. I. du Pont de Nemours & Co., Inc.

Among the textile industry associations represented on the Council are the American Association of Textile Chemists and Colorists and the American Society for Testing Materials.

High-Radiation Burner Available From Red-Ray

CLIFFSIDE PARK, N. J.—The Red-Ray Manufacturing Co., Inc., here, is offering a new high-radiation type "H" burner particularly suitable for oven, conveyor, rotary drum and roll dryer applications.

It is designed to provide from 150 BTU to 3,000 BTU per linear inch, depending upon the gas-air mixture supplied. A combustion chamber is unnecessary and the flame is stable under high velocity circulation.

General Aniline Appoints Sugarman Salesman

Jeal Sugarman has been named field sales representative for Antara Chemicals, a sales division of General Aniline & Film Corp. With General Aniline since 1955, he was a chemist in the Central Research Laboratories, Eastern, Pa. In his new post, he will cover northern and western Texas and Oklahoma and will headquartered in Dallas.

File Bankruptcy Petition Against Lee Dye Works

PHILADELPHIA, Pa.—A bankruptcy petition has been filed on April 11 in Federal Court against Lee Dye Works, Inc., by attorneys for three creditors.

Gov't Procurement

Six Firms Bid For QM Glove Insert Contract

PHILADELPHIA, Pa.—Six firms bid at the Military Clothing and Textile Supply Agency under QM-655 for 16,030 pairs wool

and nylon knit glove inserts; f. o. b. destinations. All firms offered 100 per cent domestic wool.

They are: Allied Knitting Mills, N. Y.: (a-c) \$.8773; (d) .8799; minimum, 7,000 pairs; 1/4 per cent-20; 1/8-30; Clydebank Knitting Co., Fort Plain, N. Y. (a-d) .88; 1/4 per cent-20. Florida Knitting Mills, Inc., Orlando, Fla.; (a-d) .90; all or none; 1/4 per cent-10; Groversville Continental Mills, Inc., Groversville, N. Y.: (a) \$1.04; (b and c) 1.044; (d) 1.049; all or none; Hitchcock-Curtiss Knitting Co., Nashua, N. H.: (a) 1.05; (b) 1.06; (c) 1.07; (d) 1.08; 1/10 per cent-20; all or none; and York Gloves, Inc., Yonkers, N. Y.: (a-c) .98; (d) .99; 1/4 per cent-20; all or none.

QM Plans To Open Bids For Wool Glove Inserts

PHILADELPHIA, Pa.—The Military Clothing and Textile Supply Agency plans to procure in the near future approximately 148,994 pairs of olive drab knit wool glove inserts. Delivery schedule for the procurement, which is entirely for small business, is October to December.

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Cotton Crop At World Record

(Continued from Page 1)

Larger acreage or improved growing conditions this season resulted in production increases in the U.S.S.R., Mainland China, Brazil, Colombia, Spain, Pakistan, and several other countries.

Principal declines were in Mexico, Uganda, and Central America because of smaller acreage, and in India, Mozambique, and Nigeria because of adverse weather. The net effect of these production changes is a decline in foreign supplies available for export, since the larger production in some countries, particularly the Communist, will be chiefly used domestically.

Extra-long staple cotton production in the Free World this season is now estimated at 1.9 million bales, down three percent from 1958-59. Much of the decline is in the Karnak variety in Egypt. Production of the Menoufi variety, plus a small quantity of Giza 45, has increased steadily in recent years in Egypt to a total of 853,000 bales in 1959-60.

Extra-Long Staple

Egypt's 1959-60 production of all extra-long staple cotton is down 129,000 bales, or 11 percent, from a year earlier, but production of other varieties is larger, and the total crop is up slightly despite smaller acreage. Production of Sakel-type cotton in Sudan is expected to total about 610,000 bales this season, up 16 percent from 1958-59, and five percent larger than the previous record set in 1956-57.

Smaller crops of extra-long staple cotton were harvested in the United States, Peru, and a few other countries, while Aden's crop is expected to be more nearly average size than last year. The Soviet Union produces about 450,000 bales of Egyptian-type cotton a year, most of it in Tadzhikistan and Turkmenistan Republics.

Basic Allotments Unchanged

The 1960 U. S. basic allotments total 16.3 million acres for upland cotton, the same as for 1959. A program on upland cotton similar to that for 1959 is in effect for the 1960 crop, whereby farmers could elect the

Choice B plan of a lower support price and a 40 percent increase in acreage. Selection of the Choice B program by farmers has increased acreage allotments for 1960 by 1,218,000 acres, compared with 1,018,000 acres last year.

Therefore, the total 1960 allotment for upland cotton has been increased to 17,528,000 acres, or 200,000 acres more than in 1959. Some reduction in acreage will result from placement of an estimated 660,000 acres of cotton land from the 1960 upland allotments in the conservation reserve program, compared with about 517,000 acres in 1959.

Final harvested acreage will also depend, of course, on the amount of underplanting of allotments, weather conditions, and the amount of abandonment. Underplantings may be smaller in 1960 than in 1959 because, under a new provision, acreage allotments to farmers who do not plan to use them may be reallocated to other farmers.

For extra-long staple cotton, which is not covered by the Choice B provision, the 1960 allotment is 64,776 acres, compared with 70,822 acres for 1959.

Meetings

Conclave In May On Blend Fabrics

NATICK, Mass.—A two-day conference on blend fabrics will be sponsored on May 17 and 18 by the National Academy of Sciences, National Research Council Advisory Board on Research and Development, Committee on Textile Fabrics.

The conference will be held at the QM Research and Engineering Command in Natick and is open without registration fee to those associated with the textile and allied industries. On May 19, the annual celebration of Industry Day will take place at the Command, an annual open house at which activities in quartermaster research and engineering are displayed.

The opening day of the conference will be devoted to the "Influence Upon Fabric Performance of Blending Textile

(Continued on Next Page)

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Fibers." Speakers will be: M. J. Coplan, Fabric Research Laboratories, Inc., who will discuss "Some Effects of Blend on Structure"; and Dr. H. Thomas, Courtaulds, Ltd., England, "Changes in Mechanical Properties of Fabrics of Cellulosic Fiber Blends."

Also Dr. L. Fourt, Harris Research Laboratories, Inc., and C. J. Monego, QM Research and Engineering Command, "Changes in Properties of Wool Type Fabrics"; Dr. R. Stoll, Celanese Corp. of America, "Ortho Mixtures"; and Dr. J. A. Lopez, Chemstrand Corp., "Texturizing and Blending."

The "Impact Upon Fabric Performance of Combining Different Yarns and Fibers" will be the theme of the May 18 session. Presentations will be made by Dr. J. R. Bercaw, Du Pont, "Change in Aesthetic Properties by Blending"; E. E. Hirschberg, Hart Schaffner & Marx, "Impact of Blends on Clothing Manufacture"; and Miss G. Smith, Sears Roebuck & Co., "Consumer Reactions."

The application of blends to military uses will be discussed by F. Rienerer, Aeromedical Laboratory, Wright Air Development Division, Wright-Patterson Air Force Base; T. J. Seery, Bureau of Supplies, Navy Department; Dr. S. J. Kennedy, QM Research and Engineering Command; and N. Sachs, Marine Corps Supply Activity.

Inquiries on the conference may be made to Dr. W. George Parks, University of Rhode Island, Kingston, R. I.

Speakers Listed For NKOA Convention

(Continued from Page 1) service, "New Techniques in the Dyeing and Finishing of Orlon"; D. F. Pollock, men's outerwear, marketing service, "New Style Trends in Knitted Outerwear"; and G. B. Lewis, assistant director, advertising and promotion, marketing services, "New Angles in Product Presentation."

Four men will participate in the afternoon forum on new developments in knitted fabrics. Kenneth D. Houser, technical service, textile fibers, DuPont, will report on "Techniques for Napping and Shearing of Knitted Fabrics." "New Prospects in Knitted Pile Fabric" will be covered by Victor J. Lombardi, product development, Scott &

Williams, Inc. Herman B. Goldstein, Warwick Chemical Division of Sun Chemical Corp. will deal with "Finishing Knitted Fabric" and Frank Lesser, product and sales manager of the Curon division of Reeves Brothers, Inc., will discuss "Laminating Knitted Fabrics."

Wool Association Nominates Officers

Nominees for five vice presidencies and 10 directorships of the National Association of Wool Manufacturers have been announced. The election will take place on May 5 at the Waldorf-Astoria Hotel, New York City, at the 95th annual meeting of NAWM. Nominated for reelection were two full-time officers, Edwin Wilkinson, president, and Glen F. Brown, secretary-treasurer. Other nominations are: Vice presidents: George Aspin, Excelsior Mills, Inc., Pendleton, S. C.; H. King Cummings, Guilford Woolen Mills, Guilford, Me.; Morton H. Darman, The Top Co., Boston; Harold J. Walter, Bachmann Uxbridge Worsted Co., Uxbridge, Mass. and Arthur O. Wellman, Nichols & Co., Inc., Boston.

Nominated directors-at-large are: Charles K. Bishop, Pendleton Woolen Mills, Portland, Ore.; William I. Kent, The Kent Manufacturing Co., Clifton Heights, Pa.; John H. McGowan, Wyandotte Worsted Co., Waterville, Me.; Roger D. Newell of New York, Cyril Johnson Woolen Co., Stafford Springs, Conn.; T. B. Nilsen, J. P. Stevens & Co., Inc., North Andover, Mass.; J. H. Stursberg, Livingston Worsted Mills, Holyoke, Mass.; James B. Tait, Rock River Woolen Mills, Janesville, Wis.

Group directors nominated are: combers, Ralph Whitaker, Fred Whitaker Co., Philadelphia; worsted women's wear, Ames Stevens, Ames Textile Corp., Lowell, Mass.; topmakers, Kenneth W. Marriner, Marriner & Co., Inc., Lawrence, Mass.

Factoring

Heads Talcott Division

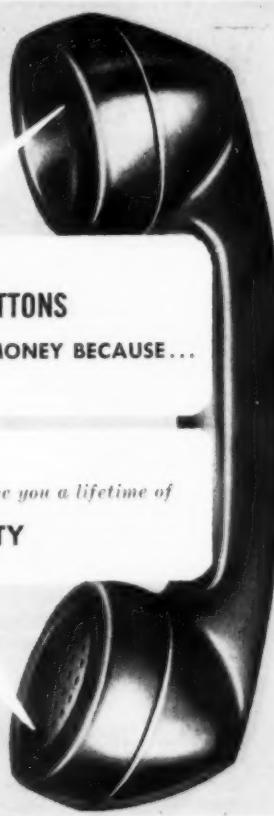
LOS ANGELES, Calif. — Richard W. Granick has been elected assistant vice president of James Talcott Western, Inc., a wholly owned subsidiary of James Talcott,

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Positive Feed Knitting Control

(Continued from Page 5)

used for monofil since this is a difficult yarn to cone if a good build free from internal sloughing is to be obtained. The larger former diameter minimizes the winding tension difficulties throughout cone winding and this helps the yarn processor to build an improved package. The disadvantages of using this cone are that the former is more expensive and more space is needed for a given weight of yarn; this latter factor increases the cost of packing and does not help the knitter who himself has knitting box limitations. Nevertheless, it has been fairly widely used for monofil.

A seven inch long cone with a half taper angle of 9°15" is now being used for modified continuous filament yarns where there is a tendency for the individual filaments to become entangled and give snatching during take-off. Taslan and Ban-Lon yarns are often packaged on this type of former. In addition to these three types of cone, Mr. Clough also described the cheese which is used for continuous filament nylon yarns such as monofil Agilon and singles crimped yarns which have a tendency to snarl on being withdrawn from the package. The cheese normally used is seven inches long with a former diameter of 2 3/8 inches.

The yarn processor prefers to wind packages as large as the knitters will accept, although his own machine limitations may dictate the maximum size which can be produced. It is cheaper to wind larger packages since this reduces package former, winding, wrapping, packing and distribution costs.

Package Specifications

The knitter often specifies the size of package. It must not be too large to be accommodated on the knitting machine and must last for a reasonable length of time. This last point is of particular significance, Mr. Clough said, when considering splicing yarns. As an example he quoted a case where splicing yarns for full-fashioned stockings in one factory working on two shifts involved the use of

only 1 1/2 ounces of yarn per package per week. These packages should therefore be small to reduce the cost of clothing the machines and to minimize the effects of yarn exposure over long periods.

He said that to obtain good take-off properties a package must be geometrically correct, free from excessive cross-threading, and free from yarn sloughs within the build. Common package faults include bellng, bulging and ridging. Cross-threading can cause snatching, particularly when present at the base of the package. Yarn slough in the build can be a very serious package fault; the yarn is liable to be withdrawn as multiple ends which if carried forward to the knitting elements will do excessive damage.

Precision Coning Unit

Much work has been carried out by yarn processors and coning machine makers on these problems. The most significant advance was the launching of the precision coning machine with the pineapple build, said Mr. Clough. These machines can be made to wind packages relatively free from the defects outlined: defects can be virtually eliminated if careful attention is paid to the machine settings, yarn tension and the build of the package supplied to the winding unit. Irregularity of take-off from this type of package is usually seen as ridging, bulging, bellng or cross-threading.

Sloughing of yarn within the build can be eliminated by paying careful attention to former surface and winding conditions. The former surface often proves to be a problem, he said, particularly if a magazine supply is required. Some roughness is necessary to give a good wind. Yet if it is too rough the yarn catches and a transfer cannot be effected. A variety of surfaces is in use; flock banding is a favorite when a magazine supply is not a specific requirement.

The larger starting diameter of the jumbo cone assists the winding of a package which is free from sloughs.

Mr. Clough dealt with package hardness at some length. He said that package hardness per

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has not been found to affect the actual take-off tension from the package. It must be borne in mind, though, he said, that if a hard or soft package is produced this must be due either to the winding machine settings or some yarn difference.

While it must be admitted that winding machine settings can vary, the coefficient of friction of the yarn is also variable. It is probable, he stated, that more hard cones contain yarn with a high coefficient of friction than do soft ones. A mixture of hard and soft cones is naturally not welcomed by a knitter as this probably spells excessive coefficient of friction and consequently stitch length difficulties.

Yarns such as monofil Agilon and singles crimped which are difficult to control during knitting are usually packaged on a cheese former. A disc (or discs) is placed on top of the package during knitting and an oil film deposited on this disc to prevent the yarn from falling back on the package, thus reducing the risk of snarling at this point.

Maintaining Tension Control

The tyre of yarn on the cheese former must not be too thick otherwise tension control is not maintained throughout unwinding. It is also important, Mr. Clough said, to unwind singles crimped yarns in the correct direction (clockwise for Z twist, anti-clockwise for S twist). By doing this, one ensures that the torque pulls the yarn towards the disc and thus ensures better contact. Speaking about trends for future development, Mr. Clough said that "The use of larger package formers allows more yarn to be packaged with a given tyre thickness. It is anticipated that future development in the packaging of these yarns will move in this direction.

In answer to a question concerning the choice of the half taper angle of 3°51 on the jumbo cone, Mr. Clough said that there did not seem to be any apparent technical reason for this particular angle. It seems to have been chosen arbitrarily by the original developers of the cone who were on the Continent, probably in Switzerland.

Another question was: "Does the take-off tension disc placed on the top of the cheese during the use of singles crimped yarns

tend to increase the amount of static build-up?" In reply, Mr. Clough said that this was not so, the oil film on the disc has a dampening effect.

Production Control

In a paper on production systems for the knitting trade, Mr. J. LeTouzel, of Singer Sewing Machine Co. Ltd., outlined the various methods used in U. S., Continental and British knitting plants. He said that any one system was concerned with four main factors: processing, transport, quality control, and storage and dispatch, the last being treated as one factor.

Any system has to cut the time and expense involved in the non-productive stages. The straightline system, which according to Mr. LeTouzel is used fairly extensively in the U. S., is in theory one of the best systems in that the production operations can be broken down into very small stages and the necessary operations can be carried out by unskilled labor.

Unfortunately, the timing of this straightforward flow of work method is highly critical, he said, and in addition is only most effective when used for large scale production. In Britain, where the range of styles is much greater than in the U. S. when compared with actual output, the progressive bundle system, by which the work is passed through the production line in small batches, is widely used to overcome these snags. This system has however the drawback of tying up capital in the production line, although it gives each operative a reservoir of work to be done.

Work Operations Linked

Mr. LeTouzel described the Valida system which has been developed in Sweden. By this method a double track links all the various work stations in the production line. The work is automatically transferred from station to station in small bins or boxes which run on this double track. A system of buttons on each of the bins enables the bins to be directed to specific stations, bypassing selected stations and stopping at others. If a second bin arrives at a station already occupied by a bin, the second bin automatically passes on round the circular track and

(Continued on Next Page)

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is presented a second time at the station. If the station is still occupied by the first bin, the second bin moves on again and is deposited at the control point of the system. These ejected bins can therefore be used to signal operative breakdown; it stops girls from leaving their work position to choose their own work also. Snags are that the size of the bin is not always big enough and the system is expensive to install.

Mr. LeTouzel then went on to discuss the M.T.M. method of work study as opposed to the more usual stop-watch method. He likened the stop-watch method to a magnifying glass and the American-developed M.T.M. method to a microscope. Outlining the operation of the M.T.M. system, he described how the various movements of fingers, arms, eyes and body are broken down into timed groups, and how the various movements involved in one production operation can be pre-timed and calculated in advance of production.

In answer to a question Mr. LeTouzel said that the complications presented by left-handed operatives had been taken into consideration in the organization of the M.T.M. system.

Some of the fundamental difficulties of moisture regain measurement were discussed in a paper given by S. L. Anderson, of the Wool Industries Research Association. In this paper he suggested that if the regain of comparatively small weights of yarn is required, the improved form of rapid regain tester is a suitable choice.

This tester usually measures the d.c. resistance of the sample under test. But if the measurement involves comparatively

large numbers of cones and cheeses, the capacitance method, with regular periodic calibration of the meter against a drying oven, is far more efficient. This second method measures the electrical capacitance at one or more frequencies.

At the wind up of the conference it was stated that a similar convention will be held in 1961, and the Knitting Group will also hold a second conference towards the end of 1961 to link with the International Knitting Machinery Exhibition which will be held in Manchester.

Financial

Chemstrand 1st Quarter Net Income Below 1959

Consolidated net income for the Chemstrand Corporation for the first quarter of 1960 totaled \$6,362,000, compared with \$7,662,000 for the first quarter of 1959, Edw. A. O'Neal, Jr., president, reported.

Sales on a consolidated basis for the first quarter were \$50,247,000, compared with \$54,134,000 for the first quarter of 1959.

These results reflected a sharp improvement in sales and earnings from the last quarter of 1959, when sales were \$42,406,000 and earnings \$3,185,000, O'Neal said.

Industrial Rayon Corp. Reports Net Loss In '60

CLEVELAND, Ohio — Industrial Rayon Corporation on April 18 reported a net loss for the first quarter of 1960 of \$504,134 equal to 27 cents per share of common stock. This compares with net income of 14 cents per common share for the first quarter of 1959.

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- 2—Phila. Jacq. LA 30", 12 feed, 7 & 10 cut, 3 col. str.
- 1—Phila. Jacq. LA, 15", 7 cut, 4 feed, 2 col. str.
- 1—Phila. Jacq. TJ, 30", 10 cut, 12 feed
- 2—Leighton transfers, 14" & 16", 7 cut, 4 feed, 2 color stripers
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- 1—Leighton racker, 10½", 7 cut, 2 feed, 3 color stripe
- 1—Phila. Jacq. TJ, 28", 7 cut, 6 feed, 4 col. str.
- 3—Phila. Jacq. TA 30", 13, 13½, 16½ cut, 12 feed, 4 col. str.
- 2—Phila. Jacq. TA, 32", 24 feed, 12½ & 13 cut, like new
- 8—Phila. Jacq. TA, 11" to 20", 4 feed, 6 to 12 cut
- 1—Phila. Jacq. MLW, 28", 11 cut, 24 feed, automats & wheels
- 6—Wildman PB2, 15", 17", 18", 20", 21", 28", 8 and 10 cut
- 1—Stafford & Holt, 30", 4 & 7 cut, 8 feed, model PA
- 1—Dubied, 5 cut, 40", fully automatic, 4 bar, double lock
- 1—Queens model B, 60", 12 Cut, high & low needles & jacks
- 1—Kastrinsky calendar machine, 66" with trolley, new style
- 1—Ainslie Brush Mach., 48"
- 2—Universal 6 spindle backwinders, L drive
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- 1—Trim-Master trimming machine
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on 6 cut flat Links single jack machines.
Knitting only.

BOX 176

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on Universal and Tricoma 4 cut machines.
Large production. Reasonable.

BOX 173

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CONTRACT WORK WANTED

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BOX 172

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Jacquard Garment and Bathing Suit Fabric
1 x 1 and Jersey body blanks and sleeves on
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BOX 160

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*Knitting and Finishing
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